

TGAAAGACCC CACCTGTAGG TTTGGCAAGC TAGCTTAAGT AACGCCATTT	1
TGCAAGGCAT GAAAAATAC ATAAGTAGA ATAGAGAAGT TCAGATCAAG	51
GTCAGGAACA GATGGAACAG CTGAATATGG GCCAAACAGG ATATCTGTGG	101
TAAGCAGTTC CTGCCCCGGC TCAGGGCCAA GAACAGATGG AACAGCTGAA	151
TATGGGCCAA ACAGGATATC TGTGGTAAGC AGTTCCTGCC CCGGCTCAGG	201
GCCAAGAACA GATGGTCCCC AGATGCGGTC CAGCCCTCAG CAGTTTCTAG	251
AGAACCATCA GATGTTTCCA GGGTGCCCCA AGGACCTGAA ATGACCCTGT	301
GCCTTATTG AACTAACCAA TCAGTTCGCT TCTCGTTCT GTTCGCGCGC	351
TTCTGCTCCC CGAGCTCAAT AAAAGAGCCC ACAACCCCTC ACTCGGGGCG	401
CCAGTCTCC GATTGACTGA GTCGCCCCGG TACCGTGTA TCCAATAAAC	451
CCTCTTGCA TCGATCCGA CTGTGGTCT CGCTGTTCT TGGAGGGTC	501
TCCTCTGAGT GATTGACTAC CCGTCAGCGG GGGCTTTCA TTTGGGGCT	551
CGTCCGGGAT CGGGAGACCC CTGCCAGGG ACCACCGACC CACCACCGG	601
AGGTAAGCTG GCCAGCAACT TATCTGTGC TGTCCGATTG TCTAGTGTCT	651
ATGACTGATT TTATGCGCCT GCGTCGGTAC TAGTTAGTA ACTAGCTCTG	701
TATCTGGCGG ACCCGTGGT GAACTGACGA GTTCGGAACA CCCGGCCGCA	751
ACCTGGGAG ACGTCCAGG GACTTCGGG GCCGTTTTG TGGCCCGACC	801
TGAGTCCAAA AATCCCGATC GTTTTGGACT CTTTGGTGCA CCCCCCTAG	851

**FIG. 1A**

AGGAGGGATA TGTGGTTCTG GTAGGAGACG AGAACCTAAA ACAGTTCCTG	901
CCTCCGTCTG AATTTTTGCT TTCGGTTTGG GACCGAAGCC GCGCCGCGCG	951
TCTTGCTGC TGCAGCATCG TTCTGTGTG TCTGTGCTG ACTGTGTTT	1001
TGTATTGTC TGAGAATATG GGGCCGCGGG CCAGACTGTT ACCACTCCCT	1051
TAAGTTTGAC CTTAGGTCAC TGGAAAGATG TCGAGCGGAT CGCTCACAAC	1101
CAGTCGGTAG ATGTCAAGAA GAGACGTTGG GTTACCTTCT GCTCTGCAGA	1151
ATGGCCAACC TTTAACGTGC GATGGCCGCG AGACGGCACC TTTAACCGAG	1201
ACCTCATCAC CCAGTTAAG ATCAAGGTCT TTTCACCTGG CCCGCATGGA	1251
CACCCAGACC AGGTCCCCTA CATCGTGACC TGGGAAGCCT TGGCTTTTGA	1301
CCCCCTCCC TGGGTCAAGC CCTTTGTACA CCCTAAGCCT CCGCCTCCTC	1351
TTCTCCATC CGCCCGTCT CTCCCCTTG AACCTCCTCG TTCGACCCCG	1401
CCTCGATCT CCTTTTATCC AGCCCTCACT CTTTCTTAG GCGCCAACCC	1451
TAAACCTCAA GTTCTTTCTG ACAGTGGGGG GCCGCTATC GACCTACTTA	1501
CAGAAGACCC CCCGCCTTAT AGGGACCCAA GACCACCCCC TTCGACAGG	1551
GACGGAAATG GTGGAGAAGC GACCCCTGCG GGAGAGGCAC CGGACCCCTC	1601
CCCAATGGCA TCTCGCTAC GTGGGAGACG GGAGCCCCCT GTGGCCGACT	1651
CCACTACCTC GCAGGCATTC CCCCTCCGCG CAGGAGGAAA CGGACAGCTT	1701
CAATACTGGC CGTTCTCCTC TTCTGACCTT TACAACCTGA AAAATAATAA	1751

**FIG. 1B**

CCCTTCTTTT TCTGAAGATC CAGGTAAACT GACAGCTCTG ATCGAGTCTG 1801  
 TTCTCATCAC CCATCAGCCC ACCTGGGACG ACTGTCAGCA GCTGTTGGGG 1851  
 ACTCTGCTGA CCGGAGAAGA AAAACAACGG GTGCTCTTAG AGGCTAGAAA 1901  
 GCGCGTGCGG GCGGATGATG GCGGCCCCAC TCAACTGCCC AATGAAGTCG 1951  
 ATGCCGCTTT TCCCCTCGAG AATTCTACCG GGTAGGGGAG GCGCTTTTCC 2001  
 CAAGGCAGTC TGGAGCATGC GCTTTAGCAG CCCCCTGGC ACTTGGCGCT 2051  
 ACACAAGTGG CCTCTGGCCT CGCACACATT CCACATCCAC CGGTAGCGCC 2101  
 AACCGGCTCC GTTCTTTGGT GGCCCCCTCG CGCCACCTTC TACTCCTCCC 2151  
 CTAGTCAGGA AGTTCCCCC GCCCCGCAGC TCGCGTCGTG CAGGACGTGA 2201  
 CAAATGGAAG TAGCACGTCT CACTAGTCTC GTGCAGATGG ACAGCACCGC 2251  
 TGAGCAATGG AAGCGGGTAG GCCTTTGGGG CAGCGGCCAA TAGCAGCTTT 2301  
 GCTCCTTCGC TTTCTGGGCT CAGAGGCTGG GAAGGGGTGG GTCCGGGGGC 2351  
 GGGCTCAGGG GCGGGCTCAG GGGCGGGGCG GCGCGAAGG TCCTCCGGAG 2401  
 CCCGGCATTG TGCACGCTTC AAAAGCGCAC GTCTGCCGCG CTGTCTCCT 2451  
 CTTCCTCATC TCCGGGCCTT TCGACCGGAT CCGGCGATTA GTCCAATTG 2501  
 TTAAAGACAG GATATCAGTG GTCCAGGCTC TAGTTTGTAC TCAACAATAT 2551  
 CACCAGCTGA AGCCTATAGA GTACGAGCCA TAGATAAAAT AAAAGATTTT 2601  
 ATTTAGTCTC CAGAAAAAGG GGGGAATGAA AGACCCACCC TGTAGGTTTG 2651

*FIG. 1C*

GCAAGCTAGC TTAAGTAACG CCATTTTGCA AGGCATGGAA AAATACATAA	2701
CTGAGAATAG AGAAGTTCAG ATCAAGGTCA GGAACAGATG GAACAGGGTC	2751
GACCCTAGAG AACCATCAGA TGTTCCAGG GTGCCCCAAG GACCTGAAAT	2801
GACCCTGTGC CTTATTTGAA CTAACCAATC AGTTCGCTTC TCGCTTCTGT	2851
TCGCGCGCTT CTGCTCCCCG AGCTCAATAA AAGAGCCAC AACCCCTCAC	2901
TCGGGGCGCC AGTCCTCCGA TTGACTGAGT CGCCCCGGTA CCCGTGTATC	2951
CAATAAACCC TCTTGCA GTT GCATCCGACT TGTGGTCTCG CTGTTCCTTG	3001
GGAGGGTCTC CTCTGAGTGA TTGACTACCC GTCAGCGGGG GTCTTTCATT	3051
TATGTGTCAT AAATATTCT AATTTTAAGA TAGTATCTCC ATTGGCTTC	3101
TACTTTTCT TTTTATTTT TTTTGTCTC TGTCTCCATG TGTGTGTGT	3151
GTTGTTTGT TGTGTGTG TTGGTGGT GGTAAATTT TTTTAAAGA	3201
TCCTACACTA TAGTCAAGC TAGACTATTA GCTACTCTGT AACCCAGGT	3251
GACCTGAAG TCATGGGTAG CCTGCTGTT TAGCCTTCCC ACATCTAAGA	3301
TTACAGGTAT GAGCTATCAT TTTGGTATAT TGATTGATTG ATTGATTGAT	3351
GTGTGTGTGT GTGATTGTGT TTGTGTGTGT GATTGTGTAT ATGTGTGTAT	3401
GGTTGTGTGT GATTGTGTGT ATGTATGTT GTGTGTGATT GTGTGTGTGT	3451
GATTGTGCAT GTGTGTGTGT GATGTGTTAG TGTATGATTG TGTGTGTGTG	3501
TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG GTATATATAT	3551

FIG. 1D

TTATGGTAGT GAGAGGCAAC GCTCCGGCCC AGGCGTCAGG TTGGTTTTTG 3601  
 AGACAGAGTC TTTCACCTAG CTTGAATTCT TGAAGACGAA AGGGCCTCGT 3651  
 GATACGCCTA TTTTATAGG TTAATGTCAT GATAATAATG GTTCTTAGA 3701  
 CGTCAGGTGG CACTTTTCGG GGAATGTGC GCGGAACCCC TATTTGTTA 3751  
 TTTTCTAAA TACATTCAA TATGTATCCG CTCATGAGAC AATAACCCTG 3801  
 ATAAATGCTT CAATAATATT GAAAAGGAA GAGTATGAGT ATCAACATT 3851  
 TCCGTGTCGC CCTTATCCC TTTTTCGGG CATTTTGCCT TCCTGTTTT 3901  
 GCTCACCCAG AACGCTGGT GAAAGTAAA GATGCTGAAG ATCAGTTGGG 3951  
 TGCACGAGTG GGTACATCG AACTGGATCT CAACAGCGT AAGATCCTG 4001  
 AGAGTTTTCG CCCCAGAA CGTTTTCAA TGATAGCAC TTTAAAGTT 4051  
 CTGCTATGTG GCGCGGTATT ATCCCGTGT GACGCCGGC AAGAGCACT 4101  
 CGGTCGCCG ATACACTATT CTCAGAATGA CTTGGTTGAG TACTACCAG 4151  
 TCACAGAAAA GCATCTTACG GATGGCATGA CAGTAAGAGA ATTATGCAGT 4201  
 GCTGCCATAA CCATGAGTGA TAACACTGCG GCCAACTTAC TTCTGACAAC 4251  
 GATCGGAGGA CCGAAGGAGC TAACCGCTTT TTTGCACAAC ATGGGGGATC 4301  
 ATGTAAGTCC CTTGATCGT TGGGAACCGG AGCTGAATGA AGCCATACCA 4351  
 AACGACGAGC GTGACACCAC GATGCCTGCA GCAATGGCAA CAACGTTGCG 4401  
 CAACTATTA ACTGGCGAAC TACTTACTCT AGCTTCCCGG CAACAATTAA 4451

*FIG. 1E*

TAGACTGGAT GGAGGCGGAT AAAGTTGCAG GACCACTTCT GCGCTCGGCC	4501
CTTCCGGCTG GCTGGTTTAT TGCTGATAAA TCTGGAGCCG GTGAGCGTGG	4551
GTCTCGCGT ATCATTGCAG CACTGGGGCC AGATGGTAAG CCCTCCCGTA	4601
TCGTAGTTAT CTACACGACG GGGAGTCAGG CAACTATGGA TGAACGAAAT	4651
AGACAGATCG CTGAGATAGG TGCCTCACTG ATTAAGCATT GGTAACGTGC	4701
AGACCAAGTT TACTCATATA TACTTTAGAT TGATTTAAAA CTCATTTTT	4751
AATTTAAAG GATCTAGGTG AAGATCCTTT TTGATAATCT CATGACCAAA	4801
ATCCCTTAAC GTGAGTTTTC GTTCCACTGA GCGTCAGACC CCGTAGAAAA	4851
GATCAAAGGA TCTTCTTGAG ATCCTTTTTT TCTGCGGTA ATCTGTGCT	4901
TGCAACAAA AAAACCACCG CTACCAGCGG TGGTTTGTT GCCGGATCAA	4951
GAGCTACCAA CTCTTTTTCC GAAGGTAAC TGGCTCAGCA GAGCGCAGAT	5001
ACCAAATACT GTCCTTCTAG TGTAGCCGTA GTTAGGCCAC CACTTCAAGA	5051
ACTCTGTAGC ACCGCCTACA TACCTCGCTC TGCTAATCCT GTTACCAGTG	5101
GCTGCTGCCA GTGGCGATAA GTCGTGTCTT ACCGGGTGG ACTCAAGACG	5151
ATAGTTACCG GATAAGGCGC AGCGGTCGGG CTGAACGGGG GGTTCGTGCA	5201
CACAGCCAG CTTGAGCGA ACGACCTACA CCGAACTGAG ATACCTACAG	5251
CGTGAGCTAT GAGAAAGCGC CACGTTCCC GAAGGGAGAA AGGCGGACAG	5301
GTATCCGGTA AGCGGCAGGG TCGGAACAGG AGAGCGCACG AGGGAGCTTC	5351

**FIG. 1F**

CAGGGGAAA CGCCTGGTAT CTTTATAGTC CTGTCGGGTT TCGCCACCTC	5401
TGACTTGAGC GTCGATTTTT GTGATGCTCG TCAGGGGGGC GGAGCCTATG	5451
GAAAAACGCC AGCAACGCGG CCTTTTTACG GTTCCTGGCC TTTTGCTGGC	5501
CTTTTGCTCA CATGTTCTTT CCTGCATTAT CCCCTGATTC TGTGGATAAC	5551
CGTATTACCG CCTTTGAGTG AGCTGATACC GCTCGCCGCA GCCGAACGAC	5601
CGAGCGCAGC GAGTCAGTGA GCGAGGAAGC GGAAGAGCGC CTGATGCGGT	5651
ATTTTCTCCT TACGCATCTG TCGGGTATTT CACACCGCAT ATGGTGCACT	5701
CTCAGTACAA TCTGCTCTGA TGCCGCATAG TTAAGCCAGT ATACACTCCG	5751
CTATCGCTAC GTGACTGGGT CATGGCTGCG CCCCACACC GCCTAACACC	5801
CGGTACGCG CCCTGACGGG CTGTCTGCT CCCGGCATCC GCTTACAGAC	5851
AAGCTGTGAC CGTCTCCGGG AGCTGCATGT GTCAGAGGTT TTCACCGTCA	5901
TCACCGAAAC GCGCGAGGCA GCTGCGGTAA AGCTCATCAG CGTGGTCGTG	5951
AAGCGATTCA CAGATGTCTG CCTGTTTCATC CGCGTCCAGC TCGTTGAGTT	6001
TCTCCAGAAG CGTTAATGTC TGGCTTCTGA TAAAGCGGGC CATGTTAAGG	6051
GCGGTTTTTT CCTGTTTGGT CACTGATGCC TCCGTGTAAG GGGGATTTCT	6101
GTTTCATGGG GTAATGATAC CGATGAAACG AGAGAGGATG CTCACGATAC	6151
GGGTACTGA TGATGAACAT GCCCGGTTAC TGAACGTTG TGAGGGTAAA	6201
CAACTGGCGG TATGGATGCG GCGGGACCAG AGAAAAATCA CTCAGGGTCA	6251

*FIG. 1G*

ATGCCAGCGC TTCGTTAATA CAGATGTAGG TGTCCACAG GGTAGCCAGC	6301
AGCATCCTGC GATGCAGATC CGGAACATAA TGGTGACGGG CGCTGACTTC	6351
CGCGTTTCCA GACTTTACGA AACACGGAAA CCGAAGACCA TTCATGTTGT	6401
TGCTCAGGTC GCAGACGTTT TGCAGCAGCA GTCGCTTCAC GTTCGCTCGC	6451
GTATCGGTGA TTCATTCTGC TAACCAGTAA GGCAACCCCG CCAGCCTAGC	6501
CGGGTCCTCA ACGACAGGAG CACGATCATG CGCACCCGTG GCCAGGACCC	6551
AACGCTGCCC GAGATGCGCC GCGTGCGGCT GCTGGAGATG GCGGACGCGA	6601
TGGATATGTT CTGCCAAGGG TTGGTTTGGC CATTACAGT TCTCCGCAAG	6651
AATTGATTGG CTCCAATTCT TGGAGTGGTG AATCCGTTAG CGAGGTGCCG	6701
CCGGCTTCCA TTCAGGTGCA GGTGGCCCGG CTCATGCAC CGCGACGCAA	6751
CGCGGGGAGG CAGACAAGGT ATAGGGCGGC GCCTACAATC CATGCCAACC	6801
CGTTCCATGT GCTCGCCGAG GCGGCATAAA TCGCCGTGAC GATCAGCGGT	6851
CCAGTGATCG AAGTTAGGCT GGTAAGAGCC GCGAGCGATC CTTGAAGCTG	6901
TCCCTGATGG TCGTCATCTA CCTGCCTGGA CAGCATGGCC TGCAACGCGG	6951
GCATCCCGAT GCCGCCGAA GCGAGAAGAA TCATAATGGG GAAGGCCATC	7001
CAGCCTCGCG TCGGAACGC CAGCAAGACG TAGCCACGG CGTCGGCCGC	7051
CATGCCGGCG ATAATGGCCT GCTTCTCGCC GAAACGTTTG GTGGCGGGAC	7101
CAGTGACGAA GGCTTGAGCG AGGGCGTGCA AGATTCCGAA TACCGCAAGC	7151

*FIG. 1H*



GACAGGCCGA TCATCGTCGC GCTCCAGCGA AAGCGGTCCT CGCCGAAAAT	7201
GACCCAGAGC GCTGCCGGCA CCTGTCTAC GAGTTGCATG ATAAAGAAGA	7251
CAGTCATAAG TGGGGCAGC ATAGTCATGC CCCGCGCCCA CCGGAAGGAG	7301
CTGACTGGGT TGAAGGCTCT CAAGGGCATC GGTGACGCT CTCCTTATG	7351
CGACTCCTGC ATTAGGAAGC AGCCAGTAG TAGGTTGAGG CCGTTGAGCA	7401
CCGCCGCCGC AAGGAATGGT GCATGCAAGG AGATGGCGCC CAACAGTCCC	7451
CCGCCACGG GGCCTGCCAC CATACCCACG CCGAAACAAG CGCTCATGAG	7501
CCCAGGTGG CGAGCCGAT CTTCCCATC GGTGATGTCG GCGATATAGG	7551
CGCCAGCAAC CGACCTGTG GCGCCGGTGA TGCCGGCCAC GATGCGTCCG	7601
GCGTAGAGCG CCACAGGACG GGTGTGGTCG CCATGATCGC GTAGTCGATA	7651
GTGGCTCCAA GTAGCGAAGC GAGCAGGACT GGGCGGCGC CAAAGCGTC	7701
GGACAGTGCT CCGAGAACGG GTGCGCATAG AAATTGCATC AACGCATATA	7751
GCGTAGCAG CACGCCATAG TGACTGGCGA TGCTGTCGGA ATGGACGATA	7801
TCCCGCAAGA GGGCCGGCAG TACCGGCATA ACCAAGCCTA TGCCTACAGC	7851
ATCCAGGGTG ACGGTGCCGA GGATGACGAT GAGCGCATTG TTAGATTCA	7901
TACACGGTGC CTGACTGCGT TAGCAATTTA ACTGTGATAA ACTACCGCAT	7951
TAAAGCTTTG CTTAGGAGTT TCCTAATACA TCCAAACTC AAATATATAA	8001
GCATTTGACT TGTTCATGC CCTAGGGGGA GGGGGAAGC TAAGCCAGCT	8051

*FIG. 11*

TTTTAAACA TTAAAAATGT TAATCCATT TTAATGCAC AGATGTTTT 8101  
 ATTTATAAG GGTTCATG TGCATGAATG TCGCAATATC CTGTTACAA 8151  
 AGCTAGTATA AATAAAATA GATAAACGTG GAAATTACTT AGAGTTTCTG 8201  
 TCATTACGT TTCCTTCCTC AGTTGACAAC ATAAATGCGC TGCTGAGAAG 8251  
 CCAGTTTGCA TCTGTCAGGA TCAATTTCCTA TTATGCCAGT CATATTAATT 8301  
 ACTAGTCAAT TAGTTGATTT TTGACATATA CATGTGAA

*FIG. 1J*

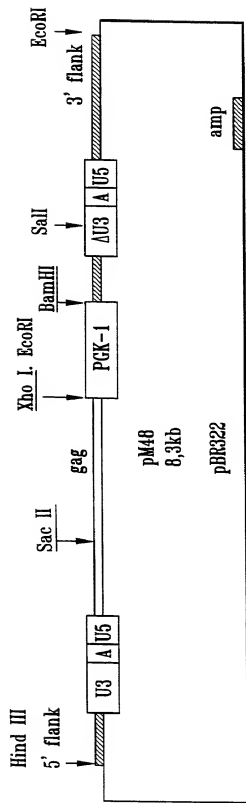


FIG. 2